TABLE 31

Companies with domestic R&D paid for and performed by the company in health or medical, defense, and agricultural application areas, by industry and company size: 2017

(Millions of U.S. dollars)

Industry and company size	NAICS code	Domestic R&D		Health or medical		Defense		Agriculture		
		Companies ^a (number) Amount		Companies ^b (number) Amount		Companies ^b (number) Amount		Companies ^b (number)		Amoun
All industries	21-23, 31-33, 42-81	19,514	339.036	4,107	78.495	2.004	i 11,036	1.388	-	5,270
Manufacturing industries	31-33	11,581	216,155	3,034	73,003	1,427	i 9,746	1,209	_	5,051
Food	311	554	4,453 i		389 i	0	0	108	_	1,467
Chemicals	325	1,730	63,285	977	54,299	107	i 215	222	_	-
Basic chemicals	3251	253	2,393	72			i 37	83	i	90
Pharmaceuticals and medicines	3254	755	55,229	717	53,868	15	101	17		290
Other chemicals	other 325	723	5,664	189	274	74	i 77 i		i	1.037
Plastics and rubber products	326	624	3,637	140	364	49	i 52	70		515
Nonmetallic mineral products	327	175	1,303	28	54 i	21	i 7	D		*
Fabricated metal products	332	1,168	2,099	212	78	278	i 175	217		36
Machinery	333	1,662	12,257	210	184	125	i 142	250	i	
Agricultural implement	33311	181	1,511	D	*	3	1	151	_	1,042
Semiconductor machinery	333242	33	3,228	D	*	3	31 i	D	_	0 - 82
Engine, turbine, and power transmission equipment	3336	97	1,921	24	44	34	i 27	18	i	19
Other machinery	other 333	1,352	5,596	180	139	85	i 84	D		0 - 82
Computer and electronic products	334	1,726	69,942	436	5,159 i		i 4,339 i	134	i	324
Semiconductor and other electronic components	3344	422	27,859	116	1,289 i	130	i 2,163 i	25		42
Other electronic products	other 334	1,304	42,083	320	3,870 i		i 2,176	110	i	282
Electrical equipment, appliances, and components	335	709	4,110	140	173	155	i 88	12	\neg	16
Transportation equipment	336	807	34,629	26	1,021	115	4,588	147	i	73
Automobiles, bodies, trailers, and parts	3361-63	367	21,137	8	350	12	23	7		15
Other transportation	other 336	441	13,492	18	671	103	i 4,565	140	i	57
Miscellaneous manufacturing	339	1,386	15,410	679	11,194	24	94 i	7		11
Other manufacturing	312-16, 321-24, 331, 337	1,050	5,029	111	88	85	i 47	D		51
Nonmanufacturing industries	21-23, 42-81	7,935	122,881	1,073	5,492	577	i 1,289 i	179	i	219
Mining, extraction, and support activities	21	104	2,841	D	*	0	0	4		6
Utilities	22	36	281	0	0	0	0	3		3
Wholesale trade	42	662	503	39	54 i	9	i 22 i	68	i	51
Information	51	2,486	78,898	246	1,256	121	402 i	14		25
Publishing	511	1,056	33,276	133	762	82	i 304 i	7		8
Telecommunications	517	101	3,643	0	0	9	30	D		2
Data processing, hosting, and related services	518	1,114	16,037	101	483	D	49	4		10
Other information	other 51	216	25,943	12	11	D	19	D		4
Professional, scientific, and technical services	54	3,679	18,972	681	3,139	440	i 848 i	80		109

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(Millions of U.S. dollars)

Industry and company size		Domestic R&D		Health o	Defense			Agriculture			
	NAICS code	Companies ⁶ (number)	Amount	Companie (number)		Compan (numbe		mount	Companie (number)		unt
Architectural, engineering, and related services	5413	1,124	1,561	79	i 19	i 94	i	69 i	25	i 17	7 i
Scientific research and development services	5417	689	2,817	427	i 1,672	156	i	158	42	84	4
Biotechnology research and development	541711	160	795	145	709	7	i	12	22	67	7
Other scientific research and development	other 5417	529	2,022	282	i 964	149	i	146	20	17	7
Other professional, scientific, and technical services	other 54	1,865	14,594	175	i 1,447	189	i	620 i	13	8	8
Health care services	621-23	108	958	i 74	898	i D		* i	D	-	* i
Other nonmanufacturing	23, 44-45, 48-49, 52-53, 55-56, 624, 71-72, 81	863	20,429	D	145	D		18	D	26	6
All companies (number of domestic employees)	-	19,514	339,036	4,107	i 78,495	2,004	i 1	1,036	1,388	i 5,270	0
Small companies											
10-19 ^c	_	3,283	2,402	698	i 760	399	i	128	148	i 30	0 i
20-49	_	6,001	7,593	1,199	i 2,612	585	i	258 i	387	i 148	8
Medium companies											
50-99	_	3,569	8,070	800	i 3,154	374	i	387	200	i 154	4
100-249	-	2,986	13,514	653	5,226	294	i	414	257	i 228	8
Large companies											
250-499	-	1,390	11,773	268	3,503	119		236	161	200	0 i
500-999	-	887	16,295	168	3,440	74		322	75	213	3 i
1,000-4,999	_	947	52,341	212	13,915	100		1,505 i	110	523	3
5,000-9,999	-	198	32,701	44	5,475	26	•	1,780 i	22	315	5
10,000-24,999	_	149	63,415	40	22,995	i 20	•	1,910	16	2,151	1 i
25,000 or more	_	105	130,931	24	17,416	13	4	4,096	10	1,309	9

^{* =} amount < \$500,000; D = data withheld to avoid disclosing operations of individual companies; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

NAICS = 2012 North American Industry Classification System.

^a Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^b Statistics for the number of companies are based only on companies in the United States that reported to the survey. These statistics do not include an adjustment to the weight to account for unit nonresponse. These company count estimates reflect a new imputation process implemented for survey year 2014. This change has affected the comparability of these company count estimates with estimates published for years prior to 2014. A company having multiple reporting parts for data collection may contribute to the statistics for multiple industries, so the detail may not add to the total for the number of companies.

^c Business Research and Development Survey does not include companies with fewer than 10 domestic employees.

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Note(s)

Detail may not add to total because of rounding. Industry classification is based on the dominant business code for domestic R&D performance, where available. For companies that did not report business codes, the classification used for sampling was assigned. Statistics are representative of companies located in the United States that performed or funded R&D. Companies could report R&D in one, more than one, or no application area. An estimate range may be displayed in place of a single estimate to avoid disclosing operations of individual companies.

Source(s)

National Center for Science and Engineering Statistics and U.S. Census Bureau, Business Research and Development Survey, 2017.